

# HEATING INJECTION APPARATUS FOR VAPOR LIQUID DELIVERY SYSTEM

## ABSTRACT OF THE INVENTION

5

A heating injection apparatus for vapor liquid delivery system includes inert gas purging part and thermostat device. Inert gas purging parts includes a liquid injector, a three-way valve, an exhausting branch and a purging gas. The three-way valve is used to connect purging gas, injector and exhausting branch. Liquid source resides in front of the liquid injector, and be injected into a gas line by liquid injector, besides the purging gas is used to purging out the liquid source remains on liquid injector to prevent polymerization. The temperature setting of thermostat device can be adjusted to meet liquid source requirement, and used to heating gas to demand production temperature before the gas enters the CVD system, and the thermostat device heats gas more efficiently, quickly and keep the gas temperature constant.